

Patent Claims

1. A method for the detection, especially online detection, of the amplification of a DNA and/or RNA sequence in a sample (1),
characterized in that
the DNA and/or RNA sequence in the sample (1) is evaluated based on the scattered light signal of the sample (1).
2. The method according to claim 1, characterized in that the sample (1) is excited by a source (2), whereby the source (2) is a light source, especially a lamp, laser or LED.
3. The method according to claim 1, characterized in that the scattered light signal corresponds to the scattered light intensity.
4. The method according to claim 1, characterized in that the sample contains impurities, especially foreign DNA and/or RNA sequences.
5. The method according to claim 1, characterized in that the quantities of products and/or educts are determined for known initial or end concentrations of products and/or educts.
6. A device comprising
means (12) for exciting a sample (1),
means for quantifying an amplification of a DNA and/or RNA sequence in the sample (1) according to the method according to claim 1 that comprises a detector (13), which can detect a scattered light signal from the sample (1).
7. The device according to claim 6, characterized in that the excitation device (12) is a light source, especially a lamp, laser or LED.

8. The device according to claim 6, characterized in that the detector (13) is a photomultiplier and/or a CCD camera and/or a diode, especially an avalanche photodiode and/or at least one PIN diode (16).

9. The device according to claim 6, characterized in that a scanner (14) is also provided.

10. The device according to claim 6, characterized in that a plurality of sample carriers (15) is provided, the sample carriers being especially selected from a group consisting of microtiter plates and capillaries.

11. The device according to claim 10, characterized in that the sample carriers (15) can be scanned with the scanner (14).

12. The device according to one of claims 9, characterized in that the scanner (14) comprises a mirror (19) that preferably moves and can be used to direct a scanning beam from the scanner (14).

13. The device according to claim 10, characterized in that the means (12) for exciting the sample (1) is designed so that large numbers of sample carriers (15) can be excited and in that the detector (13) is designed so that scattered light signals that correspond to individual sample carriers (15) can be individually detected by the detector (13).

14. The device according to claim 6, characterized in that the detection device (13) has at least two individual detectors that can detect different scattered light signals.

15. The device according to claim 6, characterized in that a controller (17) is also provided that can be sent and can evaluate signals which correspond to the detected scattered light signals.

16. The use of a device to measure scattered light to quantify the amplification of a DNA and/or

RNA sequence in a sample (1) according to the method according to claim 1.

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